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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,294	06/21/2001	Seung-Ho Oh	10061-28US(PO2001-11US) 573	
570	570 7590 07/20/2004		EXAMI	NER
AKIN GUMP STRAUSS HAUER & FELD L.L.P.			KIM, CHO	ONG R
ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200 PHILADELPHIA, PA 19103-7013		ART UNIT	PAPER NUMBER	
		2623		
			DATE MAILED: 07/20/2004	b b

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
•	09/886,294	OH, SEUNG-HO
Office Action Summary	Examiner	Art Unit
	Charles Kim	2623
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till be stated by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
	s action is non-final.	
3) Since this application is in condition for allowated closed in accordance with the practice under		
Disposition of Claims		
 4) Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) 1-12 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 1-12 is/are objected to. 8) Claim(s) are subject to restriction and/or 	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examine	er.	
10)⊠ The drawing(s) filed on <u>21 June 2001</u> is/are: a	a)⊠ accepted or b)⊡ objected to	by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	• • • • • • • • • • • • • • • • • • • •	•
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)

Art Unit: 2623

DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

ber: 09/886,294

Claim Objections

The following quotations of 37 CFR § 1.75(a) and (d)(1) are the basis of objection:

- (a) The specification must conclude with a claim particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention or discovery.
- (d)(1) The claim or claims must conform to the invention as set forth in the remainder of the specification and the terms and phrases used in the claims must find clear support or antecedent basis in the description so that the meaning of the terms in the claims may be ascertainable by reference to the description. (See § 1.58(a)).
- 2. Claims 1-12 are objected to under 37 CFR § 1.75 (a) and (d)(1) as failing to particularly point out and distinctly claim the subject matter which the applicant regards as his invention or discovery.

Referring to claim 1, the phrase "scanning window having the same size with a reference window" in lines 5-6 is grammatically incorrect. It appears that the applicant intended the phrase to read "scanning window having the same size as a reference window". A similar objection is also applicable to claim 9. Appropriate corrections are required.

Referring to claim 1, the phrase "the constraint" in line 7 lacks antecedent basis. It appears that the applicant intended the phrase to read "a constraint". A similar objection is also applicable to claim 9. Appropriate corrections are required.

Application/Control Nober: 09/886,294

Art Unit: 2623

Referring to claim 6, the phrase "subtracting the value of wx **form** the number of pixels" in line 9 is grammatically incorrect. It appears that the applicant intended the phrase to read "subtracting the value of wx <u>from</u> the number of pixels". Appropriate correction is required.

Referring to claim 9, the phrase "the greatest WMC" in line 16 lacks antecedent basis. It appears that the applicant intended the phrase to read "the greatest WMC <u>value</u>". Appropriate correction is required.

Reasons for Allowance

3. The following is a statement of reasons for the indication of allowable subject matter: The essential difference from the prior art is calculating the window matching count (WMC) values of the matched scanning windows using the determined similarities of the matched scanning columns, and determining the stereo disparity based on the matched scanning window having the greatest WMC value. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of record.

The Examiner notes that the recited S(x+i,y,d) in claim 11, and the recited S(x+wx,y,d) and S(x-1-wx,y,d) in claim 12 are defined as the similarity of the matching scanning columns, as disclosed on page 10 of the applicant's specification.

Conclusion

4. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Page 4

Application/Control Number: 09/886,294

Art Unit: 2623

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Melen U.S. Patent No. 6,674,892 discloses a method for determining stereo disparity by partitioning a pair of images into vertically striped regions, matching blocks within the vertically striped regions of one image with blocks within vertically striped regions of the other image, and determining a vertical shift based on the matching of the blocks.
- b. Berestov et al. U.S. Patent No. 6,714,672 discloses a method for determining stereo disparity by creating search columns on a pair of images, performing matching on each pixel in the search column of one image with each pixel in the search column of the other image, and determining a vertical and horizontal shift based on the matched pixels.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Kim whose telephone number is 703-306-4038.

The examiner can normally be reached on Mon thru Thurs 8:30am to 6pm and alternating Fri 9:30am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on 703-308-6604. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2623

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ck

July 1, 2004

AMÉLIA M. AU SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600